

**PANA0001-100 (formerly PANA-0002)
PATENT**

**Serial No. 09/753,892
Filed: January 3, 2001**

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Amendments to the Claims:

Please cancel claims 43-52 and 55-60 without prejudice to their presentation in another application.

This listing of claims will replace all prior versions, and listings, of claims in the application:

Claim 1-60 (Canceled)

Claim 61 (Previously presented) A method of treating a human individual who has a disease or disorder associated with exposure to ionizing radiation comprising the step of

administering to the individual who has been exposed to ionizing radiation a therapeutically effective amount of a plurality of polynucleotide molecules that are free of vector sequences, wherein

the plurality of polynucleotide molecules collectively comprises an essentially complete human genome derived from autologous DNA collected from the individual before the individual is exposed to the ionizing radiation; and each of the plurality of polynucleotide molecules having about 100-3000 nucleotides.

Claim 62 (Previously presented) The method of claim 61 wherein the plurality of polynucleotide molecules are free DNA.

Claim 63 (Previously presented) The method of claim 61 wherein at least 80% of polynucleotide molecules administered are about 200-3000 nucleotides in length.

Claim 64 (Previously presented) The method of claim 61 wherein at least 80% of polynucleotide molecules administered are about 200-3000 nucleotides in length and have an average length of about 300-1000.

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Claim 65 (Previously presented) The method of claim 61 wherein at least 80% of polynucleotide molecules administered are about 300-2000 nucleotides in length.

Claim 66 (Previously presented) The method of claim 61 wherein the plurality of polynucleotide molecules are administered in an amount of 0.4 - 20 g of polynucleotides having 200-3000 nucleotides each.

Claim 67 (Previously presented) The method of claim 61 wherein the plurality of polynucleotide molecules are administered in an amount of 1 - 16 g of polynucleotides having 200-3000 nucleotides each.

Claim 68 (Previously presented) The method of claim 61 wherein the plurality of polynucleotide molecules are administered by a regiment selected from the group consisting of: continuous infusion, multiple doses administered hourly, multiple doses administered daily, multiple doses administered every other day, multiple doses administered weekly.

Claim 69-79 (Canceled)